

# SUBJECT INDEX TO VOLUME 31

	PAGE
Accessions, Main Library, Department of Agriculture, Selected List of.....	(in each issue) I-VIII
Alfalfa, Polyembryony in.....	212
Alfalfa, Rhizoma. Chromosome studies of the parent stocks.....	123
Alfalfa under irrigation, The effect of harvesting practices on yield and winter survival of.....	457
Apricots as a source of vitamin A, Fresh and processed.....	546
Australian wheat varieties grown in Canada, Quality of.....	439
Bacterial spoilage in process cheese.....	530
Barley and the effect of lodging upon yield and certain quality characteristics, A study of method of influencing lodging in.....	177
Barley by chemical and physical treatments, Control of loose smut of.....	187
Barley, The embryo test as a method of forecasting loose smut infection in.....	559
Barley varieties by grasshoppers, Differential damage to.....	162
Blueberries by mounding, Propagating highbush.....	131
Blue mold of tobacco and its relation to the incidence of the disease in Ontario, The epidemiology of.....	225
Book Reviews.....	39, 223, 274, 566
<i>Botrytis allii</i> , An occurrence of rot of Spanish onion seedlings caused by.....	541
British Columbia, A note on the incidence of zinc deficiency in the Okanagan Valley of.....	40
British Columbia, Moisture regions in the East Kootenay lowlands of.....	15
British Columbia, Manganese deficiency in peach and apple in.....	435
Butterfat production of Jersey cows in Canada, Relation between type and.....	553
Calcium for the growing chicken, Clam shell, limestone and oyster shell with and without insoluble grit as a source of.....	429
Cameras for photomicrography, Miniature.....	323
Carotene content of the carrot, The effect of nitrogen, phosphorus, potassium and chlorine on the.....	207
Cereals in Canada, A study of some seed-borne diseases of.....	193
Cheese, Bacterial spoilage in process.....	530
Chicken, Clam shell, limestone and oyster shell with and without insoluble grit as a source of calcium for the growing.....	429
Clipping frequency on the productivity and root development of Russian wild rye in the greenhouse, The effect of.....	316
Clover and the grey-wooded soils of the Peace River region, Sweet.....	325
Clover, Ovule formation as a factor influencing seed-setting of Ladino wild.....	373
Corn inbreds to root rot caused by <i>Pythium arrhenomanes</i> , Seedling susceptibility of dent.....	475
Cows in Canada, Relation between type and butterfat production of Jersey.....	533
Cropping under irrigation, Effects of forty years of.....	349
Culm, crown and root development in oats as related to lodging.....	286
2,4-Dichlorophenoxyacetic acid vapour on tomato plants in a greenhouse, Effect of	368
Dairy stables, Removal of air from.....	492
Damage to barley varieties by grasshoppers, Differential.....	162
Digestibility studies with ruminants: XV. The effect of the plane of nutrition on the digestibility of oats in an oats-hay ration.....	113
Digestibility studies with swine: VI. Associative digestibility between the grain mixture and the protein-mineral supplement in the Canadian Advanced Registry ration for swine.....	25
Downey mildew of hops in Eastern Ontario, The control of.....	345
Downy mildew of soybean, A study of systemic infection by.....	505

	PAGE
East Kootenay lowlands of British Columbia, Moisture regions in the.....	15
Embryo test as a method of forecasting loose-smut infection in barley, The.....	559
Ethylene in fruit storage, The role of.....	99
Fertilizer carriers upon seven grass species, The effect of some.....	32
Fertilizer studies with radioactive sulphur. I.....	41
Fertilizer to tobacco plots, A tractor mounted meter attachment for side band application of.....	454
Forage crops to irrigation water, A preliminary study of the application of the percentage yield concept to the response of.....	139
Forage plants to survive early spring flooding, The ability of.....	358
Forty years of cropping under irrigation, Effects of.....	349
Fruit storage, The role of ethylene in.....	99
Frozen vegetable tissues, A histological study of ice formation in.....	519
Fusarium wilt of muskmelons and watermelons in southwestern Ontario, Investigations of.....	413
Grains in Manitoba, Smuts of coarse.....	496
Grasshoppers, Differential damage to barley varieties by.....	162
Grass species, The effect of some fertilizer carriers upon seven.....	32
Grass species, Lignification studies with various.....	1
Harvesting practices on yield and winter survival of alfalfa under irrigation, The effect of.....	457
Hops in Eastern Ontario, The control of downy mildew of.....	345
Humus type legume inoculants, Studies on. I. Growth and survival in storage....	463
Ice formation in frozen vegetable tissues, A histological study of.....	519
Inheritance of flesh colour and clubroot reaction in swedes, The.....	253
Iodine compounds in salt blocks, The stability of various.....	148
Iron-manganese interrelationships in plant nutrition.....	277
Irrigated land, Soil permeability as a factor in the translocation of salts on.....	383
Irrigation water, A preliminary study of the application of the percentage yield concept to the response of forage crops to.....	139
Irrigation, Effects of forty years of cropping under.....	349
Irrigation, The effect of harvesting practices on yield and winter survival of alfalfa under.....	457
Legume inoculants, Studies on humus type. I. Growth and survival in storage....	463
Legume seed crops, Pre-harvest chemical top-killing. I. Preliminary studies with petroleum oils, oil emulsions and mixtures of oils with potassium cyanate.....	269
Library, Department of Agriculture, Selected List of Accessions, Main	
	(in each issue) I-VIII
Light- and temperature-sensitiveness in germinating seed of timothy ( <i>Phleum pratense</i> L.).....	71
Lignification studies with various grass species.....	1
Lodging, Culm, crown and root development in oats as related to.....	286
Lodging in barley and the effect of lodging upon yield and certain quality characteristics, A study of methods of influencing.....	177
Loose smut of barley by chemical and physical treatments, Control of.....	187
Loose smut infection in barley, The embryo test as a method of forecasting.....	559
Manganese deficiency in peach and apple in British Columbia.....	435
Manitoba, Smuts of coarse grains in.....	496
Miniature cameras for photomicrography.....	323
Moisture regions in the East Kootenay lowlands of British Columbia.....	15
Mulch for strawberries, Sawdust as a.....	52
Muskmelons and watermelons in southwestern Ontario, Investigation of Fusarium wilt of.....	413



	PAGE
Nitrogen applied as a spray, A preliminary investigation of orchard grass seed production as influenced by.....	396
Nitrogen, phosphorus, potassium and chlorine on the carotene content of the carrot, The effect of.....	207
Nitrogen, rates of application and method of application on seed production of orchard grass, Effect of sources of.....	399
Nozzle abrasion in orchard spray applicators.....	470
Oats as related to lodging, Culm, crown and root development in.....	286
Oats for Eastern Ontario, A new variety of.....	176
Okanagan Valley of British Columbia, A note on the incidence of zinc deficiency in the.....	40
Onion seedlings caused by <i>Botrytis allii</i> , An occurrence of rot of Spanish.....	541
Orchard grass, Effect of sources of nitrogen, rates of application and method of application on seed production of.....	399
Orchard grass seed production as influenced by nitrogen applied as a spray, A preliminary investigation of.....	396
Orchard spray applicators, Nozzle abrasion in.....	470
Ovule formation as a factor influencing seed-setting of Ladino wild clover.....	373
Parathion when added to the soil, Persistence and toxicity of.....	133
Pasture studies, XXXI. Lignification studies with various grass species.....	1
Peace River region, Sweet clover and the grey-wooded soils of the.....	325
Peach and apple in British Columbia, Manganese deficiency in.....	435
Percentage yield concept to the response of forage crops to irrigation water, A preliminary study of the application of the.....	139
Photomicrography, Miniature cameras for.....	323
Physiological aspect of major element nutrition on the maturity of flue-cured tobacco, The.....	85
Plant nutrition, Iron-manganese interrelationships in.....	277
Poison ivy ( <i>Rhus radicans</i> L.) V. The effect of foliage removal prior to treatment on the control of poison ivy by applications of ammonium sulfamate and 2,4-dichlorophenoxyacetic acid, Eradication of.....	127
Polyembryony in alfalfa.....	212
Potatoes, Factors in relation to tuber quality in. II. Preliminary trials on bitterness in Netteed Gem potatoes.....	61
Pre-harvest chemical top-killing of legume seed crops. I. Preliminary studies with petroleum oils, oil emulsions and mixtures of oils with potassium cyanate....	269
Propagating highbush blueberries by mounding.....	131
<i>Pythium arrhenomanes</i> , Seedling susceptibility of dent corn inbreds to rootrot caused by.....	475
Radioactive sulphur, Fertilizer studies with.....	41
Rhizoma alfalfa: Chromosome studies of the parent stocks.....	123
Rootrot caused by <i>Pythium arrhenomanes</i> , Seedling susceptibility of dent corn inbreds to.....	475
Rot of Spanish onion seedlings caused by <i>Botrytis allii</i> , An occurrence of.....	541
Ruminants, Digestibility studies with. XV. The effect of the plane of nutrition on the digestibility of oats in an oats-hay ration.....	113
Rye in the greenhouse, The effect of clipping frequency on the productivity and root development of Russian wild.....	316
Salt blocks, The stability of various iodine compounds in.....	148
Salts on irrigated land, Soil permeability as a factor in the translocation of.....	383
Sawdust as a mulch for strawberries.....	52
Seed-borne diseases of cereals in Canada, A study of some.....	193
Seeder, Tractor-mounted four-row plot.....	120
Seedling susceptibility of dent corn inbreds to rootrot caused by <i>Pythium arrhenomanes</i> .....	475

	PAGE
Smuts of coarse grains in Manitoba.....	496
Soil permeability as a factor in the translocation of salts on irrigated land.....	383
Soil, The effect of waste sulphite liquor solids on the chemical and physical properties of.....	93
Soil, Water erosion of.....	152
Soils of the Peace River region, Sweet clover and the grey-wooded.....	325
Storage, The role of ethylene in fruit.....	99
Strawberries, Sawdust as a mulch for.....	52
Sulphite liquor solids on the chemical and physical properties of soil, The effect of waste.....	93
Sulphur, Fertilizer studies with radioactive.....	41
Swedes, The inheritance of flesh colour and clubroot reaction in.....	253
Swine, Digestibility studies with.....	25
Soybean, with special reference to symptomatology, economic significance and control, A study of systemic infection by downy mildew of.....	505
Stables, Removal of air from dairy.....	492
Sunflower, Effect of plant spacings, row spacings and number of plants per hill on advance hybrid.....	480
Timothy ( <i>Phleum pratense</i> L.), Light- and temperature-sensitiveness in germinating seed of.....	71
Tobacco mosaic virus causing vascular necrosis and wilt of tobacco in Ontario, A strain of.....	424
Tobacco and its relation to the incidence of the disease in Ontario, The epidemiology of blue mold of.....	225
Tobacco, The physiological aspect of major element nutrition on the maturity of flue-cured.....	85
Tractor mounted meter attachment for side band application of fertilizer to tobacco plots, A.....	454
Tractor-mounted four-row plot seeder.....	120
Tuber quality in potatoes, Factors in relation to.....	61
Tomato plants in a greenhouse, Effect of 2,4-dichlorophenoxyacetic acid vapour on.....	368
Vegetable tissues, A histological study of ice formation in frozen.....	519
Vitamin A, Fresh and processed apricots as a source of.....	546
Water erosion of soil.....	152
Wheat varieties grown in Canada, Quality of Australian.....	439
Zinc deficiency in the Okanagan Valley of British Columbia, A note on the incidence of.....	40



# AUTHOR INDEX

	PAGE
Aitken, T. R.....	439
Anderson, J. A.....	439
Appleton, J. M.....	139
Atkinson, H. J.....	93, 152
Ayers, H. D.....	383
Bentley, C. F.....	41
Broadfoot, W. C.....	193
Cameron, C. D. T.....	429
Carder, A. C.....	325
Cherewick, W. J.....	193, 496
Cooper, G. S.....	209
Cordukes, W. E.....	152
Cormack, D. V.....	41
Corns, W. G.....	269
Davidson, T. R.....	368
Davidson, W. M.....	25, 113, 148
Derick, R. A.....	176
Dessureaux, L.....	373
Eaton, E. L.....	131
Fehr, J. A.....	480
Finlayson, Muriel M.....	148
Fisher, M. H.....	439
Fraser, E. B.....	25
Freeman, J. A.....	207
Fulkerson, R. S.....	32
Gibson, D. R.....	396, 399
Gordon, Elizabeth M.....	71
Greenshields, J. E. R.....	212
Hamilton, D. G.....	286
Hanson, A. A.....	325
Harris, G. Howell.....	52, 207
Heinrichs, D. H.....	316
Hildebrand, A. A.....	505
Hill, K. W.....	349
Hilton, R. J.....	61
Hood, E. G.....	530
Kalbfleisch, Wm.....	492
Kasting, R.....	133
Kennedy, J. W.....	25, 113
Kirk, D. W.....	15
Knowles, R. P.....	323
Koch, L. W.....	225, 505
Machacek, J. E.....	193
MacIntyre, T. M.....	429
MacLachlan, D. S.....	345

	PAGE
MacVicar, R. M.....	396, 399
Magee, A. I.....	120, 454
Marshall, J.....	470
Maurer, A. R.....	519
McBean, D. S.....	162
McEvoy, E. T.....	85
McKeen, Colin D.....	413, 541
McKeen, W. E.....	475
McKenzie, R. E.....	358, 457
McLarty, H. R.....	435
McRostie, G. P.....	32
Mead, H. W.....	193
Minshall, W. H.....	127
Moyls, A. W.....	546
Murray, H. R.....	519
Newbould, F. H. S.....	463
Nilan, R. A.....	123
Ouellette, G. J.....	277
Olson, P. J.....	177
Platt, A. W.....	162
Popp, W.....	496, 559
Porritt, S. W.....	99
Putt, E. D.....	480
Rennie, J. C.....	553
Richardson, L. T.....	345
Ripley, P. O.....	152
Russell, R. C.....	559
Sanford, G. B.....	368
Scott, D. B.....	41
Scott, W. A.....	454
Sisler, W. W.....	177
Smith, K. N.....	530
Sowden, F. J.....	93
Stepler, H. A.....	1
Sterling, J. D. E.....	253
Stover, R. H.....	225, 424
Sylvestre, P. E.....	113
Thaine, R.....	316
Turner, R. C.....	152
Tyner, L. E.....	187
Watson, C. J.....	25, 113, 148
Weir, J. R.....	32
White, J. W.....	492
Woodbridge, C. G.....	40, 435
Woodward, J. C.....	133
Wynd, F. L.....	139

